REMARKS

In response to the Final Office Action mailed June 29, 2004, the Applicant respectfully requests reconsideration.

By this amendment, Applicant amends claims 2, 3, 7, 10 and 11 solely for clarification. As a result, claims 1-13 remain pending for examination, of which claims 1 and 9 are independent.

1.   Claims 1-8 Patentably Distinguish Over Weaver Johnson

Claims 1-3 and 5-8 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,173,421 (Weaver Johnson). Applicant respectfully traverses this rejection.

Claim 1 is not anticipated by Weaver Johnson because Weaver Johnson fails to disclose or suggest a method of debugging a target system using a host system connected thereto, the target system comprising a digital processor having associated memory, the method comprising, *inter alia*, **dynamically loading a stack to a reserved region of said memory**.

Weaver Johnson is directed to centrally handling a run time error or exception using a central object stack and exception handling code in a data structure separate from a program's call stack. (Col. 1, lines 10-12). Weaver Johnson describes a personal computer 20 including an operating system 35 and a TM program module 38 that includes a global object manager (GOM) 200. (Figs. 1 and 2; col. 7, lines 15-17 and 44-53). The GOM maintains a central object stack 220 of registered objects currently in use, and places or registers allocated objects on the central object stack. (Fig. 2; col. 9, lines 29-33). Objects may be dynamically allocated to the central object stack from a portion of system memory 22 called the heap. (Col. 9, lines 50-58).

Contrary to the assertions of the Office Action (Page 2, Section 2, second paragraph), Weaver Johnson does not teach or suggest dynamically loading a *stack* to a reserved region of memory. The Office Action asserts that this disclosure is found on column 3, lines 43-46 and column 9, line 50-column 10, line 11. However, as discussed above, these cited passages merely describe the *existence* of a central object stack 220 of registered objects, and dynamically loading *objects* to the stack, but not loading the stack itself to a reserved region of memory. Dynamically allocating objects to the central object stack is not the same thing as dynamically loading the stack itself to memory. In fact, nowhere in Weaver Johnson does it teach or suggest *loading* the central object stack to a reserved region of memory.

In view of the foregoing, claim 1 patentably distinguishes over Weaver Johnson. Accordingly, Applicant respectfully requests that the rejection of claim 1 under §102(e) be withdrawn. Claims 2-8 each depend from claim 1 and are patentable for at the same reasons. Accordingly, Applicant respectfully requests that the rejections of claims 2, 3 and 5-8 under §102(e) be withdrawn.

2.   <u>Claims 9-13 Patentably Distinguish Over Weaver Johnson</u>

Claims 9-13 under 35 U.S.C. § 102(e) as purportedly being anticipated by Weaver Johnson. Applicant respectfully traverses this rejection.

Claim 1 patentably distinguishes over Weaver Johnson because Weaver Johnson does not teach or suggest all of the limitations recited in claim 1. Specifically, as should be clear from the discussion of Weaver Johnson set forth in Section 1 above, Weaver Johnson does not teach or suggest a device for debugging a target system, a device comprising a host system connected thereto, a target system comprising a digital signal processor having associated memory the device further comprising, *interalia*, stack dynamic loading circuitry in said host system for **dynamically loading a stack to a reserved region of said memory,** as recited in claim 9.

In view of the foregoing, claim 9 patentably distinguishes over Weaver Johnson. Accordingly, Applicant respectfully requests that the rejection of claim under §102(e) be withdrawn. Claims 10-13 each depend from claim 9 and are patentable for at least the same reasons. Accordingly, Applicant respectfully requests that the rejections these claims under §102(e) be withdrawn.
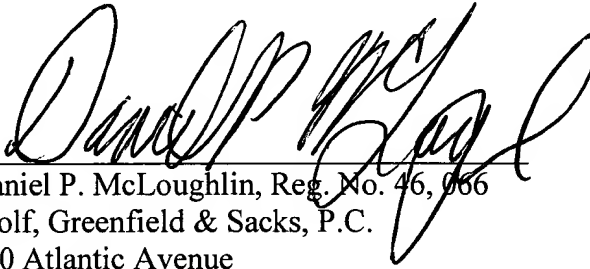
CONCLUSION

In view of the foregoing amendments and remarks, this application should now be in condition for allowance. A notice to this effect is respectfully requested. If the Examiner believes, after this amendment, that the application is not in condition for allowance, the Examiner is requested to call the Applicant's attorney at the telephone number listed below.

If this response is not considered timely filed and if a request for an extension of time is otherwise absent, Applicant hereby requests any necessary extension of time. If there is a fee occasioned by this response, including an extension fee that is not covered by an enclosed check, please charge any deficiency to Deposit Account No. 23/2825.

Respectfully submitted,

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By: _____

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